

AMENDMENT

The following listing of claims will replace all prior versions and listings of claims in the Application.

LISTING OF CLAIMS:

1. *(Currently Amended)* A system for two-way communication communicating with a plurality of smart telemetry devices via a server as using Web Services, the system comprising:

a software application;

a smart telemetry device; and

a server, wherein the server that:

accepts receives, from an enterprise software application, a request for information from two or more of the software application comprising one or more of discovering, configuring, or controlling the plurality of smart telemetry device devices, wherein at least a first of the two or more smart telemetry devices operates using a first protocol and at least a second of the two or more smart telemetry devices operates using a second protocol, wherein the request is communicated from the enterprise software application to the server via a Web Service technology,

forwards the request for information to each of the two or more smart telemetry device devices using their respective protocols via a protocol native to the smart-telemetry device,

receives information from each of the two or more smart telemetry device devices in response to the request using the respective protocols of the two or more smart telemetry devices via the protocol native to the smart-telemetry device, and

returns the information to the enterprise software application via the Web Service technology.

2. *(Currently Amended)* The system of claim 1, wherein the Web Service technology comprises one or more of XML, SOAP, WSDL, UDDI, HTTP, and or SMTP.

3. *(Currently Amended)* The system of claim 1, wherein ~~the~~ at least one of the plurality of smart telemetry ~~devices~~ ~~device~~ ~~comprises~~ comprise one or more of a controller device and or a monitor device.

4. *(Currently Amended)* A method used by a server to proxy the communication between ~~[[a]]~~ an enterprise software application and a plurality of smart telemetry devices ~~device~~, the method comprising:

accepting receiving, from the enterprise software application, a request for information from two or more of the plurality of the software application comprising discovering, configuring, and controlling the smart telemetry devices, device wherein at least a first of the two or more smart telemetry devices operates using a first protocol and at least a second of the two or more smart telemetry devices operates using a second protocol, wherein the request is communicated from the enterprise software application to the server via a Web Service technology;

forwarding the request for information to each of the two or more smart telemetry device devices using their respective protocols via a protocol native to the smart telemetry device;

receiving information from each of the two or more smart telemetry device devices in response to the request using the respective protocols of the two or more smart telemetry devices via the protocol native to the smart telemetry device; and

returning the information to the enterprise software application via the Web Service technology.

5. *(Currently Amended)* The method of claim 4, wherein the Web Service technology comprises one or more of XML, SOAP, WSDL, UDDI, HTTP, and or SMTP.

6. *(Currently Amended)* The system of claim 4, wherein at least one of the plurality of the smart telemetry ~~device~~ ~~comprises~~ devices comprise one or more of a controller device and or a monitor device.

7. *(Currently Amended)* A system for ~~communicating two-way communication~~ with a plurality of smart telemetry devices via a server as using Web Services, the system comprising:

a software application; a smart telemetry device; and a server that

receives, from an enterprise software application, wherein the server accepts a request for information from the software application comprising discovering, configuring, and controlling the two or more of the plurality of smart telemetry device devices, wherein at least a first of the two or more smart telemetry devices operates using a first protocol and at least a second of the two or more smart telemetry devices operates using a second protocol, wherein the request is communicated from the enterprise software application to the server via a first Web Service technology,

forwards the request for information to each of the two or more smart telemetry device devices via a second Web Service technology,

receives information from each of the two or more smart telemetry device in response to the request via the second Web Service technology, and

returns the information to the enterprise software application via the first Web Service technology.

8. *(Currently Amended)* The system of claim 7, wherein the first Web Service technology comprises one or more of XML, SOAP, WSDL, UDDI, HTTP, and or SMTP.

9. *(Currently Amended)* The system of claim 7, wherein the second Web Service technology comprises one or more of XML, SOAP, WSDL, UDDI, HTTP, and or SMTP.

10. *(Currently Amended)* The system of claim 7, wherein at least one of the plurality of smart telemetry device comprises devices comprise one or more of a controller device and or a monitor device.

11. *(Currently Amended)* The system of claim 7, wherein the server provides Web Services accessible to the software application that provide communication and management interfaces for the two or more smart telemetry device devices, an infrastructure allowing for the two or more smart telemetry device devices to exchange services with the server, and core Web Services that provide functionality to both the software application and the two or more smart telemetry device devices.

12. *(Currently Amended)* The system of claim 11, wherein the Web Services accessible to the software application that provide communication and management interfaces for the two or more smart telemetry device devices comprise configuration management that allows the application to determine the current settings for each of the two or more smart telemetry device devices and to change a specific setting on each of the two or more smart telemetry device devices.

13. *(Currently Amended)* The system of claim 11, wherein the Web Services accessible to the software application that provide communication and management interfaces for the two or more smart telemetry device devices comprise a directory service that enables the application to locate each of the two or more smart telemetry device devices based on one or more of serial number, model number, location, state, communication protocol, and function of the a given smart telemetry device.

14. *(Currently Amended)* The system of claim 11, wherein the Web Services accessible to the software application that provide communication and management interfaces for the two or more smart telemetry device devices comprise a messaging service that allows the application to manage the messages and alerts that the two or more smart telemetry device devices can send.

15. *(Currently Amended)* The system of claim 11, wherein the Web Services accessible to the software application that provide communication and management interfaces for the two or more smart telemetry device devices comprise a security service that allows the application to manage the access control and security settings for the two or more smart telemetry device devices.

16. *(Currently Amended)* The system of claim 11, wherein the Web Services accessible to the software application that provide communication and management interfaces for the two or more smart telemetry device devices comprise a device specific service that allows the application to access functions that are specific to each of the two or more smart telemetry device devices.

17. *(Currently Amended)* The system of claim 11, wherein the infrastructure allowing for the two or more smart telemetry ~~device~~ devices to exchange services with the server comprises a device message service that provides a mechanism for generating out-bound messages that are specific to each of the two or more smart telemetry ~~device~~ devices.

18. *(Currently Amended)* The system of claim 11, wherein the infrastructure allowing for the two or more smart telemetry ~~device~~ devices to exchange services with the server comprises a device message translator that translates incoming messages from the two or more smart telemetry ~~device~~ devices into server scripts.

19. *(Currently Amended)* The system of claim 11, wherein the infrastructure allowing for the two or more smart telemetry ~~device~~ devices to exchange services with the server comprises a device extension service that allows the two or more smart telemetry ~~device~~ devices to offload functionality so that it may be executed on the server.

20. *(Currently Amended)* The system of claim 11, wherein the infrastructure allowing for the two or more smart telemetry ~~device~~ devices to exchange services with the server comprises a device switchboard that is responsible for routing in and out message queues of the two or more smart telemetry ~~device~~ devices.

21. *(Currently Amended)* The system of claim 11, wherein the core Web Services that provide functionality to both the software application and the two or more smart telemetry ~~device~~ devices comprise a core configuration management service that allows the two or more smart telemetry ~~device~~ devices to store its configuration parameters on the server.

22. *(Currently Amended)* The system of claim 11, wherein the core Web Services that provide functionality to both the software application and the two or more smart telemetry ~~device~~ devices comprise a universal message service that allows each of the two or more smart telemetry ~~device~~ devices to store its message on the server.

23. *(Currently Amended)* The system of claim 11, wherein the core Web Services that provide functionality to both the software application and the two or more smart telemetry ~~device~~ devices comprise a dial-tone access management service that allows the two or more smart telemetry ~~device~~ devices to communicate with the application using intermittent or shared connections.

24. *(Currently Amended)* The system of claim 11, wherein the core Web Services that provide functionality to both the software application and the two or more smart telemetry ~~device~~ devices comprise a security core service that allows the two or more smart telemetry ~~device~~ devices to communicate in a secure and non-repudiated manner.

25. *(Currently Amended)* The system of claim 11, wherein the core Web Services that provide functionality to both the software application and the two or more smart telemetry ~~device~~ devices comprise a device class interface service that allows each of the two or more smart telemetry ~~device~~ devices to specify the interface that that the application can use to access ~~the a~~ a given smart telemetry device.

26. *(Currently Amended)* A method used by a server to proxy communication between ~~[[a]]~~ an enterprise software application and a plurality of smart telemetry ~~device~~ devices, the method comprising:

accepting receiving, from the enterprise software application, a request for information from the software application comprising discovering, configuring, and controlling two or more of the plurality of smart telemetry device devices, wherein at least a first of the two or more smart telemetry devices operates using a first protocol and at least a second of the two or more smart telemetry devices operates using a second protocol, wherein the request is communicated from the enterprise software application to the server via a first Web Service technology;

forwarding the request for information to each of the two or more smart telemetry device devices via a second Web Service technology;

receiving information from each of the two or more smart telemetry device devices in response to the request via the second Web Service technology; and

returning the information to the enterprise software application via the first Web Service technology.

27. *(Currently Amended)* The method of claim 26, wherein the first Web Service technology comprises one or more of XML, SOAP, WSDL, UDDI, HTTP, ~~and~~ or SMTP.

28. *(Currently Amended)* The method of claim 26, wherein the second Web Service technology comprises one or more of XML, SOAP, WSDL, UDDI, HTTP, ~~and~~ or SMTP.

29. *(Currently Amended)* The system of claim 26, wherein at least one of the plurality of smart telemetry device ~~comprises~~ devices comprise one or more of a controller device ~~and~~ or a monitor device.

30. *(Withdrawn)* A method used by a server, which acts as a proxy between a smart telemetry device and an application, to communicate with the smart telemetry device, the method comprising: receiving an message from the smart telemetry device in a Web Service technology; determining the identity of the smart telemetry device based on one or more of address and device class information contained in the message; selecting a device description document that specifies how the smart telemetry device communicates with the server from the identity of the smart telemetry device; and using the device description document to translate the body of the message.

31. *(Withdrawn)* The method of claim 30, wherein the Web Service technology comprises XML.

32. *(Withdrawn)* A system for a smart telemetry device to communicate with an application via an XML format, the system comprising: a communications link that provides the transport for exchanging messages between the smart telemetry device and the application; an input message queue that stores incoming messages; an output message queue that stores outgoing messages; an XML message processor that parses the incoming message and forwards the payload of the incoming message to a firmware function; an XML message generator that

converts a firmware-generated message to XML; and device specific functions that are firmware functions that make up the smart telemetry device's functionality.

33. *(Withdrawn)* A liquid and gas tank telemetry system, the system comprising: a tank containing material comprising one or more of a liquid and a gas; a monitor device that is attached to the tank to provide information about the tank; a controller device that automatically receives or reads data from the monitor device; a telemetry database that stores telemetry data; a software application; a device for communicating telemetry alerts to a user; and a telemetry server that communicates with the controller device, retrieves and stores data in the telemetry database, provides an interface to the software application, and forwards telemetry alerts to a means for communication telemetry alerts to a user.

34. *(Withdrawn)* The system of claim 33, wherein the monitor device that is attached to the tank to provide information about the tank comprises one or more sensors that measure one or more of tank pressure, line pressure, tank level, tank temperature, tank leakage detection, and flow rate in and out of the tank.

35. *(Withdrawn)* The system of claim 33, wherein the software application comprises one or more of inventory, scheduling and routing, billing or invoice, and enterprise resource planning systems.

36. *(Withdrawn)* The system of claim 33, wherein the device for communication telemetry alerts to a user comprises one or more of a computer receiving email, a PDA receiving email, a cellular phone receiving email, a PDA receiving text messaging, a cellular phone receiving text messaging, a pager receiving text messaging, a cellular phone receiving voice messaging, a telephone receiving voice messaging, a PDA receiving instant messaging, a cellular phone receiving instant messaging, and a computer receiving instant messaging.

37. *(Currently Amended)* A method used by a server to facilitate the two-way communication between [[a]] an enterprise software application and a plurality of smart telemetry device devices, the method comprising:

~~accepting~~ receiving a request for information from two or more of the plurality of smart telemetry device devices, wherein at least a first of the two or more smart telemetry devices operates using a first protocol and at least a second of the two or more smart telemetry devices operates using a second protocol, wherein the request for information is to send information to the enterprise application from each of the at least two smart telemetry devices via a protocol native to each of the smart telemetry device devices; and
forwarding the information to the enterprise application via a Web Service technology.

38. *(Currently Amended)* The method of claim 37, wherein the Web Service technology comprises one or more of XML, SOAP, WSDL, UDDI, HTTP, ~~and~~ or SMTP.

39. *(Currently Amended)* The system of claim 37, wherein at least one of the plurality of smart telemetry device ~~comprises~~ devices comprise one or more of a controller device ~~and~~ or a monitor device.

40. *(Currently Amended)* A method used by a server to facilitate the two-way communication between [[a]] an enterprise software application and a plurality of smart telemetry device devices, the method comprising:

~~accepting~~ receiving a request for information from two or more of the plurality of smart telemetry device devices, wherein at least a first of the two or more smart telemetry devices operates using a first protocol and at least a second of the two or more smart telemetry devices operate using a second protocol, wherein the request for information is to send information to the enterprise application from each of the at least two smart telemetry devices via a first Web Service technology; and

forwarding the information to the enterprise application via a second Web Service technology.

41. *(Currently Amended)* The method of claim 40, wherein the first Web Service technology comprises one or more of XML, SOAP, WSDL, UDDI, HTTP, ~~and~~ or SMTP.

42. *(Currently Amended)* The method of claim 40, wherein the second Web Service technology comprises one or more of XML, SOAP, WSDL, UDDI, HTTP, ~~and~~ or SMTP.

43. *(Currently Amended)* The system of claim 40, wherein at least one of the plurality of smart telemetry ~~device comprises~~ devices comprise one or more of a controller device ~~and~~ or a monitor device.